

IN THE CLAIMS

Please amend the following claims:

1. (Currently Amended) A heart prosthesis intended to be implanted in a patient to replace the pumping activity of a heart comprising at least two compartments, substantially surrounded by a house with a rigid wall and containing a number of drawing and/or pressing devices, which are partly fixedly attached to said rigid-wall provided house~~[[,]]~~ and partly fixedly attached to a flexible, elastic wall layer arranged in a respective compartment, whereby the drawing and/or pressing devices are arranged to draw said elastic wall layer towards said rigid-wall provided house for filling said compartments, the prosthesis also comprising two halves, comprising an atrium, and ventricles ~~as compartments~~, respectively, separated by a plate with at least one valve, which plate is arranged to be able to be moved between the ventricles and ~~[[the]]~~ atriums by means of drawing and/or pressing devices arranged in said rigid wall provided house.

2. (Currently Amended) A heart prosthesis according to claim 1, wherein ~~[[it]]~~ the heart comprises four compartments.

3. (Previously Presented) A heart prosthesis according to claim 1, wherein the drawing and/or pressing devices are drawing and pressing electromechanical devices, respectively, including electromagnets.

4. (Previously Presented) A heart prosthesis according to claim 1, wherein said plate is arranged to be moved by means of electromagnets or a hydraulic device arranged in said wall.

5. (Previously Presented) A heart prosthesis according to claim 1, wherein the drawing and/or

2 pressing devices are drawing, and pressing, respectively, hydraulically activated pistons.

1 6. (Currently Amended) A heart prosthesis according to claim 1, wherein [[it]] the heart is
2 arranged to be controlled digitally via [[a]] software present in a circuit board ~~in a~~ for diastole,
3 [[atrium]] atrial systole, and systole ~~phase, respectively.~~

1 7. (Currently Amended) A heart prosthesis according to claim 1, wherein [[it]] the heart is
2 supplied with energy from one or more DC batteries.